

Waterproof I/O Connector

Various Rugged I/O Solution



GT Contact Co., Ltd.

About GT Contact Waterproof Products

GT Contact's waterproof products are widely used in various kinds of customer application, which include marine equipment, networking device, outdoor LED display, lamp and lighting system, industrial PC, military NB, and medical equipment.

Related Products

RJ45 (Plastic)



Mini USB (Plastic)



USB-A (Plastic)



USB-B (Plastic)



DSUB (9pin)



Waterproof Cap



Features

- RJ45/USB/Mini USB/D-SUB/DC series available
- Vary in size
- Plastic, metal or stainless steel construction
- IP67/IP68 protection degree
- Some with UL2238 approvals

Applications

- Wireless Outdoor AP
- Medical equipment
- Solar equipment
- GPS, Positioning equipment
- Industrial PC, Military equipment
- Outdoor LED display, Outdoor LED lighting

General Specification

Connector Type	RJ45	USB-A/B · USB3.0	Mini USB-B	DSUB	DC
Current Rating	1.5A	1.5A	1.0A	5.0A	5.0A
Recommend AWG	24~26	22~28	22~28	20~24	17~20
Panel Mount Connector	-40°C ~ +105°C				
Cable End Connector	-40°C ~ +80°C				

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GT Contact's Related Waterproof Products

Circular Series



Hybrid Series



Sensor Series



Power Series



Materials

Connector Type	RJ45	USB-A/B/3.0	Mini USB-B	DSUB	DC
Plastic Parts	PA66 · PBT				
Metal Parts	Zn Alloy, Ni Plating				
Contacts	Copper Alloy, Au Plating				
Gasket & O-ring	Silicone				
Glue	Epoxy				

Electrical Characteristics

Insulation Resistance	DC500V±10%				
Dielectric Withstanding Voltage	1,000 V	500 V	100 V	1,000 V	500 V
Contact Resistance	20mΩ	30mΩ	50mΩ	30mΩ	50mΩ

Mechanical Characteristics

Durability (cycles)	750	1,500	5,000	500	2,000
Physical Shock	EIA 364 27 Test Condition H (11ms 30G)				
Random Vibration	EIA 364-28 (Frequency : 50 to 2000 Hz)				
Thermal Shock	5 cycles at -40°C / +105°C				
Humidity Life	96 hours minimum (seven step cycles).				
Salt Spray	EIA 364-26, 48 hours				
Temperature Life	85°C for 48Hours Method A , Mated				
Cycling Humidity	4 cycles at 25°C / +85°C 95%RH (1 cycles/day)				
Ingress Protection Rate	Plastic Conn: IP67, Submersion in water 1 meter for 30 minutes. Metal Conn: IP68, Submersion in water 1 meter for 24 hours.				

※ All materials are RoHS compliant.